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ART 34 AND
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Claims

1. A nozzle for use in the coating of a web-like material by means of high-pressure spraying techniques, the nozzle (1) being manufactured by forming a piece having a tapered duct ending in a closed tip, a transverse V-shaped groove (3) having been subsequently machined in the tip, characterised in that the angle of the V-shaped groove (3) is in the range from 25 to 50°, such as 35 to 45°.
2. A nozzle as defined in claim 1, in which the transverse area of the nozzle orifice is oval.
3. A nozzle as defined in claim 1 or 2, in which the ratio of the maximum diameter to the minimum diameter of the nozzle orifice is distinctly over 1, such as in the range from 1.2 to 3, especially 1.5 to 2.5.
4. A nozzle as defined in any of the preceding claims, in which the nozzle orifice dimensions are 1 to 0.3 mm x 0.5 to 0.1 mm, such as 0.75 to 0.4 mm x 0.35 to 0.15 mm.
5. A nozzle as defined in any of the preceding claims, the nozzle being a secondary nozzle (1), to which a preliminary nozzle (2) has been connected.
6. A nozzle as defined in claim 5, the preliminary nozzle (2) comprising an expanding or tapered flow duct.
7. A nozzle as defined in claim 5 or 6, in which the area of the flow orifice of the preliminary nozzle (2) is at the most 1.1 times the transverse area of the flow orifice of the secondary nozzle (1), preferably at the most equal to the transverse area of the flow orifice of the nozzle proper.
8. A nozzle as defined in any of claims 5 to 7, in which the diameter of the orifice of the preliminary nozzle (2) is in the range from 0.1 to 1 mm, such as 0.25 to 0.55 mm.
9. A nozzle as defined in any of claims 5 to 8, in which the area of the orifice of the preliminary nozzle (2) accounts for at the most 50 %, such as at the most 20 % of the area of the orifice of the secondary nozzle (1).
10. Use of a nozzle as defined in any of the preceding claims for coating paper.